

Preliminary notes on a collection
of plants of Dr. E. A. Mearns, 1892.
Walter H. Evans.

1. *Aquilegia chrysantha* Gray, Proc. Amer. Acad. viii, 621
San Luis Mts, Mexico, near boundary, June 2.
2. *Myosurus minimus* L. Spec. 284.
Lake Palomas, Mimbres Valley, Mex. Apr. 14
3. *Lesquerella fendleri* Wats. Proc. Amer. Acad. xxiii, 254
Carrizallito Mts, Mex. Apr. 17 + 20.
4. *L. purpurea* Wats, Proc. Amer. Acad. xxiii, 253
Big Hatchet Mt. N. Mex, May 18.
5. *L. gracilis* Wats. Proc. Amer. Acad. xxiii, 253
Carrizallito Mts, Mex. Apr. 19.
6. *Streptanthus carinatus* Wright in Pl. Wright II, 11.
Camp 2, Emory's 5th Monument. Apr. 2
Upper Corner Monument Grant Co, N. Mex. May, 3.
7. *Erysimum asperum* DC. Syst. 2; 505
Carrizallito Mts. Apr. 20.
8. *Gorggia camporum* Gray, Pl. Wright 1: 9.
Camp 2. Mar 24; Upper Cor. monument
Grant Co, N. Mex, May 1, 5 + 20.
9. *Sisymbrium canescens* Nutt. Gen. 2: 68.
Carrizallito Mts, Apr. 19; Alamo Viejo, N.
Mex. May 27; Upper cor. monument, Grant

(9 cont.) Co. N. Mex. Apr. 29 & May 1.

This plant resembles *S. canescens* except for the purplish sepals making the flowers appear anything but "yellow or white".

10 *Lepidium lasiocarpum* Nutt. J. & G. Fl. 1: 115.

Camp 2, Emory's 5th monument, Apr. 2,
Upper Cor. monument, Grant Co. N. Mex.
May 3;

Seems the same as Palmer's 42
from Mexico 1880, which connects the
var tenue with the species.

11 *L. montanum* Nutt. J. & G. Fl. 1: 116 + 669.
Dog Spring, Grant Co., N. Mex. May 27, 29.

12 *Nasturtium Jaliscoense* DC
Alama Ueijo N. Mex. May 27.

13 *Prosopis juliflora* DC. Prod. 2: 447.
Upper cor. monument Grant Co., N. M. May 3.

14 *Cassia bauhinioides* Gray Pl. Lindl. 2: 180.
Lake Palomus Mex. & Dog Spring,
Grant Co., N. Mex. May 26.

15 *C. wislizeni* Gray, Pl. Wright. 1: 60, 2: 50.
Dog Spring Grant Co., N. M. May 27.

16 *Dalea formosa* Torr. Ann. Lyc. N. Y. 2: 177.

Carrizalillo Mts., Apr. 16 & 20; Upper Cor.
monument Grant Co. N. M. May 3, 5, & 7.

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17. *D. Jagonathura* Gray Pl. Fendl. 31.

Carrizallilo Mts. Apr. 16.

18. *Calliandra conferta* Benth. in Gray. Pl. Wright. 1: 63.

Upper cor. monument, Grant Co., N. Mex.

Apr. 30. - This plant has 4-6 pinnae instead of "one pair" yet it agrees with 212, Parry & Palmer (1876), 318, Palmer (1880), 762, S.B. & W.F. Parish (1881), and Pringle's 1881 from Arizona all of which have been referred to this species.

20. *Astragalus triflorus* Gray, Pl. Wright. 2: 45-

Upper cor. monument, Grant Co., N. Mex. May 1;

Carrizallilo Mts. Apr. 18.

21. *A. nuttallianus*, v. *trichocarpus* Torr. Fl. 1: 334

Carrizallilo Mts. 85 ms west of El Paso, Tex.

Apr. 18.

22. *A. mollissimus* Torr. Ann. Lye. N.Y. 2: 178

Dog Spring Grant Co., N.M. May 28.

23

A.

Dog Spring May 26

24

A. nuttallianus oc. Prod. 2: 289.

Dog Spring May 26

25

A.

Dog Spring May 26.

26. *Medicago sativa* L.

Escaped from cultivation, Alamos
Vejo Grant Co, N.M. May 27.

27 *Mimosa biuncifera* Benth. Pl. Hartw. 19.

Dog Spring May 26.

29 *M. grahami* Gray, Pl. Wright. 2: 52.

San Luis Mts. Mex. June 3.

The specimens, which are in flower only, approach *M. lemmoui* in being rather pubescent but agrees with *M. grahami* in the greater number of leaflets, some of which are becoming glabrate. In the type of *M. lemmoui* (Lemon 2692) the differences noted for our specimens are also noted, some of the fruiting specimens becoming glabrate and with as many as 14 pairs of leaflets.

30. *Vicia exigua* Nutt. Torr & Gray Pl. 1: 272.

Carrizallilo Mts. Apr. 19.

31. *Rubus deliciosus* James, Long's Exped. 2: 193.

San Luis Mts. June 2.

32. *Fallugia paradoxa* Endl. Gen. Pl. 1246.

Upper cor. monument, Grant Co, N.M. May 3;
Dog Spring May 26; San Luis Mts. Mex.
June 3.

33. *Eriogynia caespitosa* Wats. Bot. Gaz. 15: 242.

Big Hatchet Mts, Grant Co., N.M. May 24.

34. *Cercocarpus parvifolius paucidentatus*

Wats. Proc. Amer. Acad. 17: 353.

Big Hatchet Mts. Grant Co., N.M. May 18.

35. *Fendlera ruficola* Engelm. Pl. Wright 1: 77.

Big Hatchet Mts. May 17.

36. *Philadelphus mearnsii* n. sp.?

Cor. monument Mex. 100 miles west of
El Paso, Texas, Apr. 28; Upper cor. monu-
ment Grant Co., N.M. May 5.

A low straggling shrub with rig-
id divaricate spinose branches. leaves
crowded on the short branches, narrowly
oblong, tapering a little to each end, 2"-5"
long $\frac{1}{2}$ "-2" wide; petiole distinct $\frac{1}{2}$ " long
or more, both leaf surfaces alike, green-
ish, covered with strigose tuberculate
hairs; flowers numerous, shortly pedic-
illate; calyx lobes ovate, acuminate, $\frac{1}{2}$ "
long, covered on the back with hairs
like the leaves, more or less ciliate on
the margins; petals oblong, about 4"
long, 2" to 2 $\frac{1}{2}$ " wide, from a broad base,
cross or emarginate at apex, rarely

36 (cont) entire and acuminate, pale yellow.
style, short; stigma, thick, 4 lobed; capsule
turgid, turbinate, $1\frac{1}{2}$ " long. - Upper corner
monument Grant Co., N. Mex., Apr. 28 to
May 5.

This species is near P. serpyllifolius
Gray, but it seems very distinct in
many particulars. Its leaves are not
3 nerved but usually nerveless. The
upper and lower surfaces of the leaves
are alike while in P. serpyllifolius the
lower surface is white from the dense
covering of hairs. In the type specimens
of P. serpyllifolius the margins of the
leaves are revolute, in this plant they
are flat. The leaves of our plant are
shortly but distinctly petioled while in
the other they are described as "sub-
petiolate". The flowers, which seem never
to open widely, are much more abun-
dant than on any specimen of P.
serpyllifolius I have seen, and all
are distinctly pedicilate. The calyx
lobes are longer and more acute
than in its congener. The petals are

36^(cont) usually narrower and longer than in *P. serpyllifolius*, and are almost uniformly emarginate. The capsule is loculicidally dehiscent almost to its base.

37. *Leptocaulis echinatus* Nutt

Carrizallito Mts Apr. 20.

38. *Cymopterus montanus* Nutt

Carrizallito Mts Apr 17.

39. *Pseudocymopterus montanus* C. & R.

Big Hatchet Mts Grant Co. N.M., May 17.

40. *Daucus pusillus* Michx

Upper cor. monument Grant Co. N.M. May 3.

41. *Polygala hemipteracarpa* Gray

Dog Spring Grant Co., N.M. May 26 & 27.

42. *P. scoparia* W.B.K.

Carrizallito Mts Apr. 20.

This seems to be the form described by Dr. Gray as var. multicaulis. It differs however in color of flowers, which are rose color with purple veining and the capsule instead of being "divided into two linear lobes" is lanceolate & entire or emarginate and fully half as long as the hairy seed.

43. *P. lindheimeri* Gray.

Big Hatchet Mts May 24

44. *Otelea angustifolia* Benth.

Upper cor. monument Grant Co., May 5;

Big Hatchet Mts. May 17 & 26.

45. *Polygala macradenia* Gray

Upper cor. monument Grant Co., May 5.

46. *Fouquieria splendens* Engelm.

Upper Cor. monument Grant Co. May 1 & 3

Big Hatchet Mts, May 17; Mesquite

Spring Mex. May 20.

47. *Linum rigidum* Pursh.

Carrizalillo Mts, Apr. 16; Upper cor. mon-

ument, Grant Co. May 5.

48. *Gaura coccinea* Nutt.

Carrizalillo Mts Apr. 17.

49. *Oenothera sinuata grandiflora* Wats.

El. Paso Tex. & Carrizalillo Mts -

50. *OE. brachycarpa* Gray. or *Wrightii*?

Big Hatchet Mts. May 24; Upper cor.

monument Grant Co., May 5.

(This seems to be the *OE brachycarpa* as in

Coulter-Coult. vol 2, no 1.) The flowers in
our specimens show a very decided
yellow and would hardly seem to

50 (cont) go into a groupe designated as
"petals purple" as they are only
partly purple after drying.

51. *Rhus microphylla* Engelm.

Carrizallito Mts Apr. 16; Upper cor.
monument Grant Co., May 5+10; + Dog
Spring May 26.

52 *R canadensis trilobata* Gray

Dog Spring May 26.

53 *R. virens* Lindl.

Mt. Franklin, El Paso. Texas

54 *Lapindus marginatus* Willd.

Carrizallito ~~Mts~~ Spring Apr. 15; Alamo
Vejo Grant Co., May 27; Dog Spring
Grant Co. May 28.

55. *Krameria secundiflora* DC.

Upper cor. monument Grant Co. N.M.

May 7; Dog Spring May 28.

56 *Larrea wrightii* Torr.

El Paso Tex.; Big Hatchet Mts. Grant
Co. N.M. May 18.

57 *Eschscholtzia mexicana* Greene

Carrizallito Mts. Apr. 17.

58 *Vitis arizonica* Engelm.

Dog Spring, May 28; Sandias Mts June 2

59. *Argemone platyceras* Link & Otto
Dog Spring May 26
60. *Larrea mexicana* Moric
Upper cor. monument Grant Co. May 3
61. *Erodium texanum* Gray
Carrizalito Mts Apr. 17.
62. *Berberis trifoliata* Moric.
Carrizalito Spring Apr. 18
63. *Glossopetalon spinescens* Gray.
Upper cor. monument Grant Co. May 7.
64. *Mortonia scabrella* Gray.
Upper cor. monument .. May 3.
65. *Cucurbita foetidissima* HBK.
Dog Spring May 27
66. *C. digitata* Gray
White Water Grant Co., June 3
67. *Lythrum lanceolatum* Ell.
Dog Spring May 29.
68. *Salinum lineare* HBK.
Dog Spring May 29
69. *Mentzelia multiflora* Gray
White Water Grant Co May 31.
70. *Rhamnus californica* Esch.
San Luis Mts. Mexico June 2.
71. *Acer grandidentatum* Nutt. (same as above)

72. *Sidalcea malvaeflora* Gray ?

Mesquite Spring Mex. May 16.

This plant differs from the type in having more slender stems, smaller leaves with shorter petioles, radical leaves 6"-8" in diam. and petioles not exceeding 2' in length; whole plant excepting the calyx nearly glabrous & glaucous.

73. *Abutilon parvulum* Gray.

Dog Spring May 26

74. *Sphaeralcea angustifolia* Spach

Dogspring & Alama Viejo N.M. May 29.

75. *S. incana dissecta* Gray.

Carrizallito Mts Apr. 18. Upper cor.
monument Grant Co. May 3; & Lake
Palomas Mex. Apr.

76. *Hibiscus denudatus involucellatus* Gray

Upper cor. monument Grant Co. May 6.

77. *Sphaeralcea angustifolia* Spach ?

Alama Viejo Grant Co May 27

78. *S. angustifolia cuspidata* Gray ?

Alama Viejo May 27.

79. *Sphaeralcea* —

Carrizallito Mts Apr. 18.

80. *Sphaeralcea Emoryi* Torr ?
Big Hatchet Mts May 24
81. *Opuntia macrocentra* Engelm
White Water Grant Co, June 3.
82. *O. Engelmanni* Salzm.
Dog Spring May 26
- 83 *O. filispindula* Engelm.
Mesquite Spring Mex. May 16. Dog Spring
May 28.
- 84 *O. arborescens* Engelm
Whiterwater June 3; Corriganillo Mts, Apr. 18.
85. *O. leptocaulis* DC
Upper cor. monument Grant Co. May 3.
86. *O. grahamii* Engelm
El Paso Texas.
- 87 *Cercus fendleri* Engelm
Upper cor. monument Grant Co. May 2
Apache Mts Grant Co. May 17.
88. *C. conoides* Engelm.
Corriganillo Mts Apr. 17; Big Hatchet
Mts, Grant Co. May 17
The spines show great variation
being somewhat longer & stouter than
usually given in the descriptions
of this species.

89. *Mamillaria dasyacantha* Engelm
Big Hatcher Mts. May 17.
118. *Thamnosma texanum* Torr.
Corrigan Mts Apr. 20.
- 90 *Arbutus xalapensis* Texana Gray
San Luis Mts June 3.
91. *Phacelia congesta* Hook.
Camp 2, Emory's 5th Monument, Corrigan-
illo Mts Apr. 17; Upper cor. monument
Grant Co. May 3.
92. *P. ~~congesta~~ crenulata* Torr
Upper cor. monument May 3
93. *Gilia longiflora* Dougl.
Upper cor. monument Grant Co. May 3;
Flowers lilac, younger portions of the
plant canescent as is the inside
of the calyx lobes.
- 94 *G. rigidula acerosa* Gray
Corrigan Mts Apr 17.
95. *G. inconspicua* Dougl.
Corrigan Mts Apr. 17.
96. *G. filifolia diffusa* Gray
Dog Spring May 27.

97. *Gilia floccosa* Gray ?
Dog Spring May 27
98. *Linaria canadensis* Sumort
Camp 2' Emory's 5th monument Apr. 6.
99. *Salvia henryi* Gray
Upper cor. monument Grant Co., May 7
100. *Scutellaria wrightii* Gray
Dog Spring May 26.
Some of the leaves are crenulate.
101. *Pentstemon acuminatus* Dougl.
Carrizallito Mts Apr. 18.
102. *P. lanceolatus* Benth.
Dog Spring May 26.
Our plant seems to be this Mexican species. The flowers are orange red, spotted with darker red. Some are over "one" inch in length. The inflorescence is very glandular.
103. *Mimulus glabratus* HBK
San Luis Mts. June 3.
104. *Castilleja integra* Gray.
Carrizallito Mts Apr. 17, 18 & 20; Upper cor. monument Grant Co., May 3-10.
This may be the *C. gloriosa* of Britton which I have not seen.

105 *C. sessiliflora* Pursh
Carrizallito Mts Apr. 18; upper cor. mon-
ument Grant Co. May 1.

106. *Antirrhinum maurandioides* Gray
Dog Spring May 26.

107 *Chilopsis saligna* Don
Dog Spring May 27

108 *Verbena bipinnata* Nutt
Big Hatchet Mts May 24; Upper
cor. monument May 3.

109 *Verbena bipinnatifida* Nutt ?
Carrizallito Mts Apr. 17.

This form approaches *V. aubletia* in the
color of its flowers and bracts shorter
than the calyx but the leaves are
more dissected than in that species.

110. *Echinopspermum redowskii* Lehmann. var.
Camp 2 Emorys 5th monument Apr. 6
Carrizallito Mts Apr. 17.

111. *Armitzchia jamesii* Gray.
Carrizallito Mts Apr. 17; Upper cor.
monument Grant Co. May 5.

112 *Onosmodium bejarianae* DC.
Big Hatchet Mts May 17.
Young but probably this species.

113. *Anisacanthus thurberi* Gray.
Big Statchet mts May 18; Dog Spring May 26
- 114 *Galium microphyllum* Gray.
Dog Spring May 26
- 115 *Evolvulus alsinoides* L.
Carrizallito mts Apr. 16.
- 116 *Convolvulus incanus* Vahl.
Carrizallito mts Apr. 17
- 117 *Ansonia palmeri* Gray.
Cañon near Upper cor. monument, Grant Co
May 1; Carrizallito mts Apr. 17.
- 119 *Chamaesaracha sordida* Gray?
Carrizallito mts Apr. 17; Upper cor. mon-
ument Grant Co. N.M. May 1-
- 120 *Physalis hederæfolia* Gray
Summit Big Statchet mts May 18.
- 121 *Solanum nigrum* L.
Dog Spring May 28
- 122 *S. elaeagnifolium* Cav.
Alamo Viejo May 27, Dog Spring May 29.
123. *Asclepias nummularia* Torr.
Dog Spring May 21.
- 124 *A. tuberosa* L
San Luis mts June 3.

- 125 *Asclepiodora decumbens* Gray.
Dog Spring, May 28; Carrizallito Mts
Apr. 17; White Water, Grant Co., June 3.
126. *Plantago patagonica* Jacq. var
Camp 2, Emory's 3rd monument, Mex 28;
Carrizallito Mts, Apr. 20.
- 127 *Fraxinus cuspidata* Torr.
Summit Big Hatchet Mts May 18.
128. *Coldenia canescens* DC.
Upper cor. monument Grant Co. May 5.
176. *Fraxinus pistaciæfolia* Torr.
Alama Veijo, Grant Co., May 27.
129. *Aplepappus spinulosus* DC.
Carrizallito Mts Apr. 17; Upper cor-
monument May, 5; Alama Veijo May 27.
- 130 *Zinnia grandiflora* Nutt.
Dog Spring May 23
131. *Z. pumila* Gray -
Upper cor. monument May 7-
- 132 *Melampodium cinereum* DC.
Carrizallito Mts, Apr. 20. Upper cor. mon. May 8.
- 133 *Stephanomeria runcinata* Nutt.
Dog Spring May 26.

- 134 *Baileya multiradiata* Pursh & Gray
Carrizalillo Mts. Apr. 16; Dog Spring May 26.
- 135 *Perizia nana* Gray.
Carrizalillo Mts. Apr. 15; Upper corner
monument May 3.
- 136 *Berlandiera lyrata* Benth.
Doyle's Ranch Grant Co., May 10;
Dog Spring " " May 27.
- 137 *Gaillardia pulchella* Foug.
Alamo Viejo May 27; White Water June 3.
- 138 *Kuhnia rosmarinifolia* Vent.
Alamo Viejo, Grant Co., May 27.
- 139 *Iris angustifolia* DC.
Dog Spring May 26; White Water, May 31.
- 140 *Senecio douglasii* DC.
Camp 2. Emory's 5th monument Apr. 6;
Carrizalillo Mts, Apr. 20; Upper corner
monument, May 3; Dog Spring May 26.
- 141 *S. aureus* L. var.
Sycamore creek, Dog Spring May 27.
- 142 *Actinella odorata* Gray.
Camp 2. Emory's 5th monument Apr. 6.
Mesquite Spring Mexico May 16; Dog
Spring Grant Co., N. M. May 26.

143. *Hymenatherum thurberi* Gray.

Camp 2. Emory's 3^d monument Mar 24,
Upper cor. monument Grant Co., May 1.

144 *H. acerosum* Gray -

Carrizallito Mts. Apr. 16; Upper cor.
monument May 3.

145 *Bahia absinthifolia dealbata* Gray

Upper cor monument May 3.

146. *Baccharis jeronioides* DC.

Upper cor monument May 20;

Dog Spring May 26.

147. *Aster ericaeifolius* Rothrock

Camp 2 Emory's 3^d monument Apr. 6;

Carrizallito Mts Apr. 17; Dog Spring May 28.

148. *Erigeron divergens* Torr & Gray.

Carrizallito Mts. Apr. 20; Upper cor.

monument Grant Co. May 3.

149. *Malacothrix fendleri* Gray.

Upper cor monument May 1.

150 *Porophyllum scoparium* Gray.

Upper cor. monument. May 3.

151 *Sonchus asper* Vill.

Alama Urijo Grant Co May 27.

152 *Cnicus ochrocentrus* Gray.

Carrizallito Mts., Apr. 17; Big Hatchet Mts., May 17.

153. *Euphorbia serpens* HBK.

Carrizallito Mts Apr. 16.

154. *E. fendleri chaetocalyx* Boiss.

Upper corner monument Grant Co. N.M. May 3.

155. *E. montana gracilior* Engelm.

Big Hatchet Mts, Grant Co., N.M. May 17 and
San Luis Mts. Mex. June 2. (Compare with *E. pringlei*)

156. *Tragia stylaris* Muhl.

Upper cor. monument Grant Co. May 7.

157. *Jatropha macrocarpa* Benth.

Mesquite Spring, Mex. May 16, Dog Spring
Grant Co. N. Mex. May 26.

158. *Croton gracilis* Muhl.

Upper cor. monument Grant Co. May 5.

159. *C. corymbulosus* Engelm.

Upper cor. monument Grant Co. May 5, White
Water, June 1, Big Hatchet mts. N. Mex. May 24

160. *Trochilichia gracilis* Moq.

Dog Spring Grant Co. N. Mex. May 26.

161. *Gnaphalium caespitosum* Torr.

Carrizallito Mts, Apr. 16, Dog Spring Grant
Co. N. Mex. May 26, White Water Grant Co. June 1.

162. *Eriogonum albertinum* Torr.

Big Hatchet mts. N. Mex. May 19.

163. *E. rotundifolium* Benth.

Dog Spring Grant Co. N. Mex. May 26.

164. *Allionia incarnata* L.

Carrizallito Mts, N. Mex. Apr. 17.

165. *Abronia turbinata* Torr.

Camp 2. Emory's 5th monument N. Mex

166. *Anemopsis californica* Hook.

Lake Palomus Mex. Apr. 14, Dog Spring N. M.

May 29, Alama Vieja Grant Co, May 27,

Mesquite Spring Mex, May 16.

167. *Juglans rupestris* Engelm.

Dog Spring Grant Co, May 26, A tree
30 feet high & 1 1/2 feet in diam.

168. *Morus microphylla* Buckley, Phil. Acad. Sci 1862. p. 8.

Upper cor. monument, May 3 and Dog Spring

Grant Co, N. Mex. May 29.

169. *Celtis occidentalis*

Dog Spring Grant Co, May 26, Upper cor.
monument Grant Co, May 1.

170. *Platanus racemosa* Nutt.

Dog Spring N. Mex May 26.

171. *Phoradendron flavescens* Nutt.

Trinity River Texas Jan. 29.

172. *P. balleanum* Eichler. on *Juniperus* sp.

Carrizallito Mts, Apr. 19.

This is the same as *P. pauciflorum* Torr. reduced
by Dr. Watson in Bot. Cal. ii p. 105.

- 173 *Rumex salicifolius* Wein-
White Water Grant Co., N. Mex. June 3.
- 174 *Chenopodium album* L.
Alama Veijo N. Mex. May 27.
- 175 *Populus angustifolia* James.
Alama Veijo, Grant Co. N. M. May 27 and
Dog Spring " " " " 29.
- 177 *Quercus hypoleuca* Engelm.
San Luis Mts., Mex. June 2.
- 178 *Q. reticulata* HBK.
San Luis Mts Mex June 2.
- 179 *Q. oblongifolia* Torr ?
Dog Spring May 27
- 180 *Q. dumosa* var ?
Upper cor. monument Grant Co. May 5
- 181 *Q. undulata wrightii* Engelm.
Carrizalillo Mts N. M. Apr. 16.
- 182 *Q. undulata* var - ?
Big Hatchet Mts. N. M. May 18.
- 179^a *Q. oblongifolia* Torr?
doubtfully referred here. Leaves 8"-12" long
and 4"-6" with cordate bases.
183. *Salix nigra* Marsh. by Bebb!
Dog Spring Grant Co. N. M. May 29. A
Tree 25 ft high & 1 ft in diam.

184. *Salix nigra* Marsh. by Bebb -
Lake Palomus, Mimbres Valley Mex.

Apr. 14.

Bebb says all the specimens are
forms of *S. nigra* that he is not willing
to separate at present altho he may
do so later.

185. *Allium reticulatum* Fraser

Carrizallito Mts, Apr. 16, Upper cor.
monument Grant Co. N.M. ~~Apr~~^{May 5}.

186. *Nolina texana* Watson

San Luis Mts. Mex. June 3.

187. *Dasyllirion texanum* Scheele ?

Big Hatchet Mts. N. Mex. May 17.

Probably this sp. Material insufficient

188. *Yucca baccata* Torr.

Carrizallito Mts, Apr. 15; Apache Mts.
Grant Co. N.M. May 4, Upper cor. monu-
ment Grant Co. N.M. May 11.

Referred here tentatively. The flowers
are larger: stamens shorter than the
ovary and the purplish bracts are
large and conspicuous.

189. *Patanogeton fectinatus* L.
Lake Palomas, Mimbres Valley Mex. Apr. 14.

190 *Scirpus olneyi* Gray.
Dog Spring Grant Co. N. M. May 29.

191. *S. pungens* Vahl?
Lake Palomas Mex. Apr. 14.

192 *Eleocharis palustris* R. Br.
Lake Palomas, Mex. Apr. 14, Mesquite
Springs - May 16.

Grasses - Determined by Dr Vasey.

193 *Sporobolus arivoides* Torr.
Grant Co, N. Mex May

194 *Hilaria mutica* Benth
Upper cor. monument Grant Co, May 3

195. *Distichlis maritima* Raf.
Mesquite Spring Mex May 16.

196 *Dactylis glomerata* L.
Dog Spring, Grant Co, May 28,
Foliage rougher & thicker than in northern forms.

197 *Festuca tenella* Willd.
Camp 2, Emory's 5th monument and
Carrizallito mts. ~~May~~ Apr. 17. common

198. *Iriodia pulchella* HBK.
Camp 2. Emory's 5th monument Apr. 6.

199. *Setaria caudata*
Carrizallito Mts Apr. 19.
200. *Poa bigelovii* U.S.
Upper cor. monument, Grant Co. May 3.
201. *Panicum lacnanthum* Torr.
Upper cor. monument May 3
202. *Bouteloua racemosa* Lag.
Upper cor. mont. May 3
203. *Aristida dispersa*
~~Dog~~ Upper. cor. mont. May 3.
204. *Agrostis verticillata* Vell.
Dog Spring Grant Co. May 28 and
Mesquite Spring Mex. May 16.
205. *Muhlenbergia mexicana* Trin.
Upper cor. monument Grant Co. May 3.
206. *M. distichophylla* Munro.
Upper. cor monument May 3.
207. *Eragrostis reptans* Nees.
Upper. cor. monument Grant Co. May 3.
208. *E. lugens* Nees.
Upper cor. monument May 3
209. *Elymus sitanion* Schult.
Upper cor. monument Grant Co. N.M. May 3,
Carrizallito Mts, Apr. 17, and Big-
Hatchet Mts. Grant Co. N.M. May 18.

210. *Pinus ponderosa* Dougl.
San Luis mts, June 3. A tree
100 ft high & 3 ft in diam.
211. *P. chihuahuana* Engelm.
San Luis mts. June 3. Tree 75-100 ft
high 2-3 feet in diam.
- 212 *P. edulis* Engelm.
Big Hatchet mts. N. Mex. May 17.
- 213 *Pseudotsuga douglasii* Carr.
San Luis mts June 2
- 214 *Cupressus arizonica* Greene
San Luis mts June 2.
215. *Juniperus pachyphloea* Torr.
Big Hatchet mts, N.M. May 24, San
Luis mts, June 2, Dog Spring Grant Co.
May 26, (Upper cor. monument Grant Co. May 6. ^{this must be some other species})
- 216 *J. occidentalis* Hook.
Carrizalillo mts N.M. Apr. 20.
- 217 *Ephedra trifurca*, Torr. staminate fls
Carrizalillo mts, Apr. 16, fistillate
Upper cor. monument Grant Co. May 3.
- 218 *Notholaena hookeri* Eaton
Camp 2, Emory's 5th monument Apr 10 2,
Carrizalillo mts Apr. 19 and Upper cor.
monument Grant Co. May 3. common

219. *Pellaea wrightiana* Hook.
 Carrizallito Mts N.M. Apr. 17, Camp 2,
 Emory's 5th monument, Apr. 6, and Upper
 cor. monument N.M. May 3. common
220. *Notholaena sinuata* Kaulf.
 Carrizallito Mts, N.M. Apr. 16, Upper cor.
 monument Grant Co. May 10.
221. *Cheilanthes lindheimeri* Hook.
 Camp 2, Emory's 5th monument Apr. 2.
222. *C. lanuginosa* Nutt.
 Upper cor. monument May 3.
223. *C. eatoni* Baker.
 Upper cor. monument May 10.
224. *C. ^{minor} microphylla* Desf.
 Big Hatchet Mts, Grant Co. May 24.
225. *Selaginella rupestris* Spring
 Big Hatchet Mts, May 18, + Dog Spring
 Grant Co. N.M. May 19.
226. *Monna barbata* (L.) Fr.
 Big Hatchet Mts N.M. May 17.
227. *Evnia furfuracea* (L.) Mann.
 Big Hatchet Mts. Grant Co. N.M. May 17.